

Serial No.: 10/511829\_C

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Coverage back to 1948  
NEWS 7 APR 07 CA/CAPLUS CLASS Display Streamlined with Removal of  
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NEWS 17 JUN 29 Enhanced Batch Search Options in DGENE, USGENE,  
and PCTGEN  
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databases provides new, more efficient competitor  
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NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 14:51:31 ON 24 JUL 2010

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STRUCTURE FILE UPDATES: 23 JUL 2010 HIGHEST RN 1233764-64-1

DICTIONARY FILE UPDATES: 23 JUL 2010 HIGHEST RN 1233764-64-1

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=> e astxanthin/cn

E1 1 ASTUPROTIMUT-R/CN

E2 1 ASTURIDON/CN

E3 0 --> ASTXANTHIN/CN

E4 1 ASTYMIN 3/CN

E5 1 ASTYMIN FORTE/CN

E6 1 ASTYN/CN

E7 1 ASTYRENECRYLIC ACID-E12 STEARATE-GLYCIDYL METHACRYLATE-ISOBORNYL METHACRYLATE-STYRENE GRAFT COPOLYMER DIETHANOLAMINE SAL T/CN

E8 1 ASTYRON/CN

E9 1 ASTYRONE/CN

E10 1 ASU/CN  
E11 1 ASU 26C/CN  
E12 1 ASU 95510H/CN

=> e astaxanthin/cn

E1 1 ASTAX 10000H/CN  
E2 1 ASTAX 1700/CN  
E3 1 --> ASTAXANTHIN/CN  
E4 1 ASTAXANTHIN B-D-DIGLUCOSIDE/CN  
E5 1 ASTAXANTHIN 3,3'-DIACETATE/CN  
E6 1 ASTAXANTHIN BIS(CIS-ACONITATE)/CN  
E7 1 ASTAXANTHIN BIS(L-PROLINATE) DIHYDROCHLORIDE/CN  
E8 1 ASTAXANTHIN BIS(L-TARTRATE)/CN  
E9 1 ASTAXANTHIN BIS(TRIMETHYLSILYL) ETHER/CN  
E10 1 ASTAXANTHIN DI(2-FUROATE)/CN  
E11 1 ASTAXANTHIN DI(N-ACETYLGLYCINATE)/CN  
E12 1 ASTAXANTHIN DI-L-LYSINATE TETRAHYDROCHLORIDE/CN

=> s e3

L1 1 ASTAXANTHIN/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN

RN 472-61-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN  $\beta,\beta$ -Carotene-4,4'-dione, 3,3'-dihydroxy-, (3S,3'S)- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN  $\beta$ -Carotene-4,4'-dione, 3,3'-dihydroxy-, all-trans- (8CI)

CN Astaxanthin (6CI)

OTHER NAMES:

CN (3S,3'S)-all-trans-Astaxanthin

CN (3S,3'S)-Astaxanthin

CN (3S,3'S)-Astaxanthin

CN (S,S)-Astaxanthin

CN all-trans-Astaxanthin

CN Aquasta

CN AstaREAL

CN Astared

CN Astaxanthin, all-trans-

CN AstaXin

CN Astots 100

CN Astots 50

CN BioAstin

CN BioAstin oleoresin

CN Carophyll Pink

CN Lucantin Pink

CN Natupink

CN NatuRose

CN Ovoester

CN trans-Astaxanthin

FS STEREOSEARCH

DR 346585-67-9

MF C40 H52 O4

CI COM

LC STN Files: ADISINSIGHT, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS,

Serial No.: 10/511829\_C

BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB\*, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK\*, NAPRALERT, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD, VETU

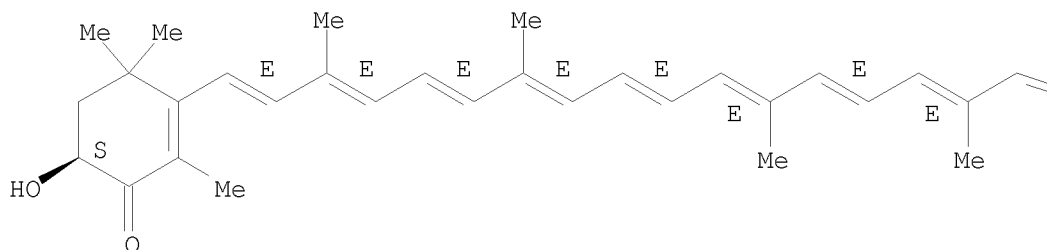
(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*

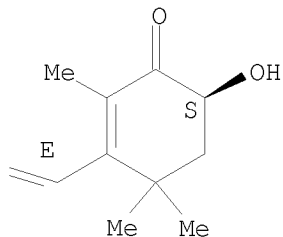
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.  
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3609 REFERENCES IN FILE CA (1907 TO DATE)

336 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3625 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e caprylic/cn

E1	1	CAPRYLENE/CN
E2	1	CAPRYLGUANAMINE/CN
E3	0 -->	CAPRYLIC/CN
E4	1	CAPRYLIC ACID/CN
E5	1	CAPRYLIC ACID A-MONOGLYCERIDE/CN
E6	1	CAPRYLIC ACID 2,2,2-TRICHLOROETHYL ESTER/CN
E7	1	CAPRYLIC ACID 2,4-DINITROPHENYLHYDRAZIDE/CN
E8	1	CAPRYLIC ACID 2-AMINOETHYL ESTER HYDROCHLORIDE/CN
E9	1	CAPRYLIC ACID 2-BUTANOL ESTER/CN

E10 1 CAPRYLIC ACID 2-CHLOROETHYL ESTER/CN  
 E11 1 CAPRYLIC ACID 2-DECANOL ESTER/CN  
 E12 1 CAPRYLIC ACID 2-DODECANOL ESTER/CN

=> e octanoic/cn

E1 1 OCTANOHYDROXIMIC ACID, MONOPOTASSIUM SALT/CN  
 E2 1 OCTANOHYDROXIMOYL CHLORIDE/CN  
 E3 0 --> OCTANOIC/CN  
 E4 1 OCTANOIC ACID/CN  
 E5 1 OCTANOIC ACID ((2R,4S)-2-(4-METHYLPHENYL)-2-BROMOMETHYL-1,3-DIOXOLAN-4-YL)METHYL ESTER/CN  
 E6 1 OCTANOIC ACID ((2S,4S)-2-(4-METHYLPHENYL)-2-BROMOMETHYL-1,3-DIOXOLAN-4-YL)METHYL ESTER/CN  
 E7 1 OCTANOIC ACID (10-(3,6,7,10,11-PENTAKISHEXYLOXYTRIPHENYLEN-2-YLOXY)DECYL)AMIDE/CN  
 E8 1 OCTANOIC ACID (2,6-DIMETHYL-4-(MORPHOLIN-4-YL)PHENYL)AMIDE/CN  
 E9 1 OCTANOIC ACID 1-(4-BIPHENYLYL)ETHYL ESTER/CN  
 E10 1 OCTANOIC ACID 1-MONOGLYCERIDE/CN  
 E11 1 OCTANOIC ACID 2-((6-FLUORO-7-METHYL-2-TRIFLUOROMETHYL-(1,8)NAPHTHYRIDIN-3-YL)CARBONYL)-3-OXOCYCLOHEX-1-ENYL ESTER/CN  
 E12 1 OCTANOIC ACID 2-MONOGLYCERIDE/CN

=> s e4

L2 1 "OCTANOIC ACID"/CN

=> d l2

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN

RN 124-07-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Octanoic acid (CA INDEX NAME)

OTHER NAMES:

CN 1-Heptanecarboxylic acid

CN Caprylic acid

CN Edenor C 8-98-100

CN Emery 657

CN Kortacid 0899

CN Lunac 8-95

CN Lunac 8-98

CN n-Caprylic acid

CN n-Octanoic acid

CN n-Octoic acid

CN n-Octylic acid

CN NAA 82

CN Neo-Fat 8

CN Neo-Fat 8S

CN NSC 5024

CN Octylic acid

CN Prifac 2901

MF C8 H16 O2

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, PS, RTECS\*, SPECINFO,

Serial No.: 10/511829\_C

SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*, WHO  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

HO<sub>2</sub>C—(CH<sub>2</sub>)<sub>6</sub>—Me

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

16699 REFERENCES IN FILE CA (1907 TO DATE)  
1537 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
16872 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
17.16	17.38

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:53:46 ON 24 JUL 2010  
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FILE COVERS 1907 - 24 Jul 2010 VOL 153 ISS 5  
FILE LAST UPDATED: 23 Jul 2010 (20100723/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2010  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2010

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2010.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 11 (L) 12  
3625 L1  
16872 L2  
L3 0 L1 (L) L2

=&gt; s 11 and 12

3625 L1

16872 L2

L4 12 L1 AND L2

=&gt; d 14 1-12 ibib abs

L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:1402768 CAPLUS

DOCUMENT NUMBER: 151:536451

TITLE: Cationic latex as a carrier for active ingredients and methods for making and using the same

INVENTOR(S): Krishnan, Venkataram

PATENT ASSIGNEE(S): Mallar Creek Polymers, Inc., USA

SOURCE: PCT Int. Appl., 89pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009137014	A1	20091112	WO 2009-US2744	20090504
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20080233062	A1	20080925	US 2008-116006	20080506
PRIORITY APPLN. INFO.:			US 2008-116006	A 20080506
			US 2006-839973P	P 20060824
			US 2007-895541	A2 20070824

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB This invention relates to the field of polymeric materials that can be used in combination with a wide variety of substrates, such as textiles, metal, cellulosic materials, plastics, and the like, and to the field of active agents including, for example, antimicrobial, antibacterial, and antifungal materials. This invention further relates to latex polymer coatings that comprise at least one active component as well as methods for making and using such latex compns. Thus, deodorant composition was prepared

comprising DC245 fluid 49.30%, Bentone gel VS-5/PC 13.50%, Puresyn 4 10.0%, Asensa CL 110 1.0%, Cabosil M5 0.2%, Reach AZP 908 SUF 24.0%, and dipropylene glycol 2.0%.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:62711 CAPLUS  
DOCUMENT NUMBER: 151:287467  
TITLE: Multiresidue analysis of pesticides in animal and fishery products by NCI mode GC/MS and dual-column GC-micro ECD  
AUTHOR(S): Ueno, Eiji; Kabashima, Yuka; Oshima, Harumi; Ohno, Tsutomu  
CORPORATE SOURCE: Aichi Prefectural Institute of Public Health, Nagoya, 462-8576, Japan  
SOURCE: Shokuhin Eiseigaku Zasshi (2008), 49(6), 390-398  
CODEN: SKEZAP; ISSN: 0015-6426  
PUBLISHER: Nippon Shokuhin Eisei Gakkai  
DOCUMENT TYPE: Journal  
LANGUAGE: Japanese  
AB A sensitive and quant. multiresidue method using NCI mode GC/MS and GC-micro ECD for determining pesticides in animal and fishery products was established. The crude sample extract obtained by acetone-hexane extraction for solid samples or acetonitrile extraction for liquid samples was cleaned up with a GPC/SPE system. The first GPC pesticide fraction containing lipids and pigments was selectively collected, and loaded directly onto a graphitized carbon/PSA 2-layered column. After the second GPC pesticide fraction was collected, the 2-layered column was eluted with acetone-hexane (3:7). The combined eluate was subjected to NCI-SIM/Scan mode GC/MS for semi-quantification. After fractionation by Florisil cartridge column SPE, each fraction was subjected to dual-column GC-micro ECD for quantification. Average recoveries (n = 5) of pesticides, except for chlorothalonil and some others, from fortified samples ranged from 76.8% to 107.9% with RSD values of <9.7%.  
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2008:1155669 CAPLUS  
DOCUMENT NUMBER: 149:408949  
TITLE: Cationic latex as a carrier for active ingredients and methods for making and using the same  
INVENTOR(S): Krishnan, Venkataram  
PATENT ASSIGNEE(S): Mallard Creek Polymers, Inc., USA  
SOURCE: U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S. Ser. No. 895541.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20080233062	A1	20080925	US 2008-116006	20080506
US 20080057049	A1	20080306	US 2007-895541	20070824
WO 2009137014	A1	20091112	WO 2009-US2744	20090504

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,



ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH,  
 PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,  
 IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI,  
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,  
 TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
 ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2006-839973P P 20060824  
 US 2007-895541 A2 20070824  
 US 2008-116006 A 20080506

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB This invention relates to the field of polymeric materials that can be used in combination with a wide variety of substrates, such as textiles, metal, cellulosic materials, plastics, and the like, and to the field of active agents including, for example, antimicrobial, antibacterial, and antifungal materials. This invention further relates to latex polymer coatings that comprise at least one active component as well as methods for making and using such latex compns. Thus, deodorant composition was prepared

comprising DC245 fluid 49.30%, Bentone gel VS-5/PC 13.50%, Puresyn 4 10.0%, Asensa CL 110 1.0%, Cabosil M5 0.2%, Reach AZP 908 SUF 24.0%, and dipropylene glycol 2.0%.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1207105 CAPLUS

DOCUMENT NUMBER: 147:454810

TITLE: External compositions containing redox catalysts, oxidoreductase, and/or reducing agents

INVENTOR(S): Yanagi, Kotaro

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2007277212	A	20071025	JP 2006-127932	20060404
PRIORITY APPLN. INFO.:			JP 2006-127932	20060404

AB The invention relates to an external composition, especially an anti-wrinkle, skin-whitening, anti-acne, anti-aging, and skin barrier function-improving cosmetic composition, wherein the composition is characterized by containing at least

two components selected from a metal redox catalyst, an oxidoreductase, and a reducing agent. The components activates biol. tissue or bioactive agent through the reducing effect. The components may be immobilized on the surface of carrier particles. For example, crystallized subtilisin was crosslinked with protein through glutaraldehyde to stabilize. The crystal was mixed with platinum colloid in 0.5 % xanthan gel at 10 and 0.1 %, resp., and further mixed with L-ascorbic acid-2-phosphate ester-6-palmitate (3 %), fullerene C60 (1 %), and preservative (2 %). The gel composition showed higher keratolytic effect as compared with glycolic acid

cream on human skin. Also, an emulsion composition containing the gel composition

0.0001-10 % with other ingredients was formulated.

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1287293 CAPLUS

DOCUMENT NUMBER: 147:166496

TITLE: Chemical synthesis of astaxanthin n-octanoic acid monoester and diester and evaluation of their oral absorbability

AUTHOR(S): Fukami, Harukazu; Namikawa, Koshi; Sugiura-Tomimori, Namino; Sumida, Motoo; Katano, Kenji; Nakao, Masahiro

CORPORATE SOURCE: Department of Bioscience and Biotechnology, Faculty of Bioenvironmental Science, Kyotogakuen University, 1-1 Nanjyo, Sogabe-cho, Kameoka-city, Kyoto, 621-8555, Japan

SOURCE: Journal of Oleo Science (2006), 55(12), 653-656

CODEN: JOSOAP; ISSN: 1345-8957

PUBLISHER: Japan Oil Chemists' Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:166496

AB We chemical synthesized astaxanthin n-octanoic acid monoester and diester from free astaxanthin and n-octanoic acid by a dehydration reagent in 32 and 22% yield, resp. The oral absorbability of the n-octanoic acid monoester and diester was evaluated by examining the plasma and liver concns. of astaxanthin after oral administration of the compds. The monoester significantly increased the plasma and liver concentration of astaxanthin compared with the long-chain fatty acid ester mixture derived from Haematococcus algae. The diester is inclined to increase it although it is not significant. It is possible that medium-chain fatty acid esters give better oral-absorbability of astaxanthin than long-chain fatty acid esters.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1219315 CAPLUS

DOCUMENT NUMBER: 146:44433

TITLE: Carotenoids in Solenocera indica and Aristeus alcocki, deep-sea shrimp from Indian waters

AUTHOR(S): Manjabhat, Sachindra Nakkarike; Narayan, Bhaskar; Subbanna, Mahendrakar Namdev

CORPORATE SOURCE: Department of Meat, Fish, and Poultry Technology, Central Food Technological Research Institute, Mysore, 570 013, India

SOURCE: Journal of Aquatic Food Product Technology (2006), 15(2), 5-16

CODEN: JAFPE5; ISSN: 1049-8850

PUBLISHER: Food Products Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Carotenoids are the major pigments responsible for the color of crustaceans like shrimp. Quant. and qual. distribution of carotenoids in different body components of deep-sea shrimp Solenocera indica and

*Aristeus alcocki*, from Indian waters were assessed. The yield of waste (head and carapace) from processing of these shrimp ranged from 62.6–65.6%. Carotenoid content was higher in *A. alcocki* and the highest total carotenoid content of 185.3 µg/g was observed in head of *A. alcocki*. Astaxanthin and its mono- and diesters (63.5–92.2%) were the major carotenoids in both the species of shrimp and the levels of esterified astaxanthin were higher than the free form of astaxanthin. The levels of astaxanthin esters were higher (61.7–70.8%) in *A. alcocki* compared to *S. indica* (43.8–58.4%). Highest unsatd. fatty acid content (60.5%) was observed in the carotenoid extract from head of *A. alcocki*, and the highest saturated fatty acid content (83.1%) was observed in the carotenoid extract from the carapace.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:161417 CAPLUS

DOCUMENT NUMBER: 142:279029

TITLE: Carotenoids in crabs from marine and fresh waters of India

AUTHOR(S): Sachindra, N. M.; Bhaskar, N.; Mahendrakar, N. S.

CORPORATE SOURCE: Department of Meat, Fish and Poultry Technology, Central Food Technological Research Institute, Mysore, 570 013, India

SOURCE: LWT--Food Science and Technology (2005), 38(3), 221–225

CODEN: LSTWB3

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Quant. and qual. distribution of carotenoids in meat and shell of major marine crab (*Charybdis cruciata*) and fresh water crab (*Potamon potamon*) from Indian waters was assessed. The total carotenoid content was low in both species of crabs analyzed, highest being 11.0 µg/g in shell of marine crab. Thin-layer chromatog. (TLC) and high-performance liquid chromatog. (HPLC) of carotenoid exts. indicated that the marine crab contained astaxanthin and its esters as major carotenoids and zeaxanthin was major carotenoid in fresh water crab extract. Astaxanthin and its esters contributed 67.6 and 65.5 g/100 g of total carotenoids in meat and shell of marine crab. The zeaxanthin content (g/100 g) in the carotenoid extract of meat and shell of fresh water crab was 42.0 and 74.8 of total carotenoids. The carotenoid exts. from both the crabs had higher level of unsatd. fatty acids. Oleic acid (C18:1) and palmitoleic acid (C16:1) were the predominant unsatd. fatty acid in carotenoid extract from meat of marine and fresh water crab, resp. In the carotenoid extract from shell, eicosenoic acid (C20:1) in marine crab and linolenic acid (C18:3) in fresh water crab were the major unsatd. fatty acids.

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:19691 CAPLUS

DOCUMENT NUMBER: 142:133344

TITLE: Carotenoids in different body components of Indian shrimps

AUTHOR(S): Sachindra, Nakkarike M.; Bhaskar, Narayan;  
Mahendrakar, Namadev S.  
CORPORATE SOURCE: Department of Meat, Fish and Poultry Technology,  
Central Food Technological Research Institute, Mysore,  
570 013, India  
SOURCE: Journal of the Science of Food and Agriculture (2005),  
85(1), 167-172  
CODEN: JSFAAE; ISSN: 0022-5142  
PUBLISHER: John Wiley & Sons Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The quant. and qual. distribution of carotenoids in different body  
components of 4 species of shrimp (*Penaeus monodon*, *Penaeus indicus*,  
*Metapenaeus dobsonii*, and *Parapenaeopsis styliifera*) harvested from shallow  
waters off the Indian coast was assessed. The highest total carotenoid  
contents were observed in the head (153.1 µg g<sup>-1</sup>) and carapace (104.7  
µg g<sup>-1</sup>) of *P. styliifera*, while the body components of *P. indicus* showed  
the lowest carotenoid levels. Astaxanthin and its mono- and diesters were  
the major carotenoids (63.5-92.2% of total carotenoids) present in the  
carotenoid exts. from the shrimps, while the exts. contained low levels of  
β-carotene and zeaxanthin. The major fatty acids in the carotenoid  
exts. were palmitic, heptadecanoic, palmitoleic, stearic, and oleic acids.  
OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS  
RECORD (16 CITINGS)  
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:404819 CAPLUS  
DOCUMENT NUMBER: 141:189706  
TITLE: Sugar ester synthesis by a mycelium-bound *Mucor*  
*circinelloides* lipase in a micro-reactor equipped with  
water activity sensor  
AUTHOR(S): Antczak, Tadeusz; Patura, Justyna; Szczesna-Antczak,  
Mirosława; Hiler, Dariusz; Bielecki, Stanisław  
CORPORATE SOURCE: Institute of Technical Biochemistry, Technical  
University of Łódź, Łódź, 90-924, Pol.  
SOURCE: Journal of Molecular Catalysis B: Enzymatic (2004),  
29(1-6), 155-161  
CODEN: JMCEF8; ISSN: 1381-1177  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 141:189706

AB The mycelium-bound *Mucor circinelloides* lipase was used for the synthesis  
of esters of saccharides and fatty acids in 37 mL reactor equipped with  
magnetic stirrer and water activity sensor. Either di-n-pentyl ether or  
the mixture of di-n-pentyl and petroleum ethers were applied as reaction  
media. Water activity sensor provided online monitoring of this parameter  
and control of continuous processes of ester synthesis. It was found that  
two natural antioxidants, i.e. carotene and astaxanthin activated this  
lipase in organic solvents that could be beneficial for the synthesis of  
esters of compds. sensitive to oxidation, e.g. polyunsatd. fatty acids.  
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD  
(7 CITINGS)  
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2003:892745 CAPLUS  
 DOCUMENT NUMBER: 139:363710  
 TITLE: Astaxanthin medium-chain fatty acid ester manufacture  
 by enzymic transesterification and esterification  
 INVENTOR(S): Sumida, Motoo; Nakao, Masahiro; Tomimori, Namino;  
 Namikawa, Koshi; Fukami, Harukazu  
 PATENT ASSIGNEE(S): Suntory Limited, Japan  
 SOURCE: PCT Int. Appl., 49 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093229	A1	20031113	WO 2003-JP5443	20030428
W: AU, CA, CN, ID, IL, JP, KR, SG, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
CA 2481704	A1	20031113	CA 2003-2481704	20030428
AU 2003234765	A1	20031117	AU 2003-234765	20030428
AU 2003234765	B2	20090917		
EP 1500645	A1	20050126	EP 2003-728006	20030428
EP 1500645	B1	20090715		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1649839	A	20050803	CN 2003-809532	20030428
CN 100374417	C	20080312		
SG 150385	A1	20090330	SG 2006-7508	20030428
JP 4410675	B2	20100203	JP 2004-501368	20030428
KR 941899	B1	20100211	KR 2004-716796	20030428
US 20050228188	A1	20051013	US 2004-511829	20041020
PRIORITY APPLN. INFO.:				
			JP 2002-128989	A 20020430
			WO 2003-JP5443	W 20030428

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB An astaxanthin medium-chain fatty acid ester (I) useful for manufacturing food, cosmetic, and drug has better bioavailability and movement in liver than that of the previously known astaxanthin long-chain fatty acid esters. I is prepared by enzymic transesterification with a lipase between the astaxanthin long-chain fatty acid esters and medium-chain fatty acid or glycerides, or enzymic esterification of astaxanthin. Manufacture of astaxanthin mono- and diester of octanoic acid with lipase of Candida was shown.

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 2002:888445 CAPLUS  
 DOCUMENT NUMBER: 137:375344  
 TITLE: Two-part disinfecting system  
 INVENTOR(S): Morelli, Joseph; Warf, C. Cayce, Jr.; Aldrich, Maura;  
 Morse, Cecilia Moser; Wiley, Jean

PATENT ASSIGNEE(S): Alcide Corporation, USA  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002091832	A1	20021121	WO 2002-US15303	20020515
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 6524624	B1	20030225	US 2001-859902	20010516
AU 2002308724	A1	20021125	AU 2002-308724	20020515
EP 1401280	A1	20040331	EP 2002-769742	20020515
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			US 2001-859902	A 20010516
			WO 2002-US15303	W 20020515

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The two-part disinfecting system contains a first part and a second part adapted to be mixed to yield an aqueous disinfecting composition, wherein the first part comprises a chlorite and the second part comprises an acid and an oxidizable colorant, and wherein the first and/or second part comprise an  $\alpha$ -olefin sulfonate. When the two parts are mixed, the resulting disinfectant composition shows reduced chlorine dioxide generation and extended color longevity.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2000:821281 CAPLUS  
 DOCUMENT NUMBER: 134:146440  
 TITLE: Activity of immobilised in situ intracellular lipases from *Mucor circinelloides* and *Mucor racemosus* in the synthesis of sucrose esters  
 AUTHOR(S): Antczak, T.; Hiler, D.; Krystynowicz, A.; Szczesna, M.; Bielecki, S.; Galas, E.  
 CORPORATE SOURCE: Institute of Technical Biochemistry, Technical University of Lodz, Lodz, 90-924, Pol.  
 SOURCE: Progress in Biotechnology (2000), 17(Food Biotechnology), 221-227  
 CODEN: PBITE3; ISSN: 0921-0423  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:146440

AB The activity of intracellular, immobilized in situ lipases from *Mucor circinelloides* and *Mucor racemosus* can be changed by means of chemical modifications of the reaction milieu, using some substances isolated from *Mucor* cells. The substances act ambivalently (as activators or inhibitors) on the lipases. The yield of sucrose monocaprylate synthesis and the time to reach the reaction equilibrium state were determined in mono- and biphasic systems. The investigations proved that in a milieu of di-n-pentyl ether saturated with water, 92% of sucrose was esterified, and the location of the lipase on the interface between the phases, markedly diminished the time equilibrium to reach.

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 14:50:58 ON 24 JUL 2010)

FILE 'REGISTRY' ENTERED AT 14:51:31 ON 24 JUL 2010

E ASTXANTHIN/CN

E ASTAXANTHIN/CN

L1 1 S E3

E CAPRYLIC/CN

E OCTANOIC/CN

L2 1 S E4

FILE 'CAPLUS' ENTERED AT 14:53:46 ON 24 JUL 2010

L3 0 S L1 (L) L2

L4 12 S L1 AND L2

=> log off

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

STN INTERNATIONAL LOGOFF AT 14:57:02 ON 24 JUL 2010